

What is claimed is:

1. An electromagnetic shielding material comprising:  
a polymer resin for a matrix; and  
5 a conductive filler including a carbon nanotube and a metal.
- 10 2. The electromagnetic shielding material as recited in claim 1, wherein a volume percent of the carbon nanotube ranges about 0.2 % to about 10 % and a volume percent of the metal powder ranges about 7.0 % to about 30 % so that the total volume percent of the conductive filler is in a range of about 7.2 % to about 40 %.
- 15 3. The electromagnetic shielding material as recited in claim 1, wherein the carbon nanotube employs a single-walled carbon nanotube or a multi-walled carbon nanotube.
- 20 4. The electromagnetic shielding material as recited in claim 3, wherein the carbon nanotube is manufactured by a method selected from the group consisting of a chemical vapor deposition, an arc discharge, a plasma torch and an ion impact.
- 25 5. The electromagnetic shielding material as recited in claim 3, wherein the carbon nanotube is material selected from the group consisting of a nanotube having a phenyl-carbonyl C-C stretch bonding peak existing between about 1,300 cm<sup>-1</sup> and about 1,100 cm<sup>-1</sup>, a nanotube having a phenyl-carbonyl C-C stretch bonding peak existing between about 1,300 cm<sup>-1</sup> and about 1,100 cm<sup>-1</sup>, a carbonic C-C stretch bonding peak existing between about 1,570 cm<sup>-1</sup> and about 1,430 cm<sup>-1</sup> and a carboxylic C=O stretch vibration peak existing at about 1,650 cm<sup>-1</sup>, a nanotube having a phenyl-carbonyl C-C stretch bonding peak existing between about

1,300 cm<sup>-1</sup> and about 1,100 cm<sup>-1</sup>, a carboxyl C=O stretch vibration peak existing at about 1,650 cm<sup>-1</sup> and an -OH bonding peak existing at about 3,550 cm<sup>-1</sup>, a nanotube having a C-F bonding peak existing at about 1,250 cm<sup>-1</sup> and a combination thereof.

6. The electromagnetic shielding material as recited in claim 1, wherein the polymer resin is a general-purpose polymer selected from the group consisting of a silicon rubber, a polyurethane, a polycarbonate, a polymethyl methacrylate, polyvinyl alcohol, Acrylonitrile-Butadiene-Styrene terpolymer (ABS) and a combination thereof.

7. The electromagnetic shielding material as recited in claim 1, wherein the polymer resin is a thermosetting resin selected from the group consisting of epoxy, polyimide and a combination thereof.

8. The electromagnetic shielding material as recited in claim 1, wherein electrical conductivity of the metal is higher than 10<sup>5</sup> S/cm.

9. The electromagnetic shielding material as recited in claim 8, wherein the metal is a material selected from the group consisting of a silver powder, a silver-coated copper powder, a steel fiber, a copper fiber, an aluminum fiber and a nickel fiber.